Table 27. Air pollution controls on all wood products dryers.

Control device	Number of dryers	Percent of dryers
Incineration-based controls:		
RTO, RCO, TCO, or TO only	56 RTO, 7 RCO, 4 TO	10
WESP/[RTO or RCO]	4 [RCO], 32 [RTO]	5
[PM control]/WESP/RTO	3 [BH], 12 [CYC], 12 [MC]	4
[PM control]/RTO	10 [RBP], 18 [MC]	4
Process incineration (PINC) ^a	6	<1
Semi-incineration (SINC) ^b	2	<1
PINC/[PM control]	4 [BH], 3 [DESP], 6 [MC/DESP], 5 [SCBR]	3
SINC/[PM control]	9 [SCBR], 1 [WESP], 1 [MC]	2
WESP's and wet scrubbers:		
Wet scrubber only	89	13
WESP only	71	11
SCBR/WESP	4 SCBR-WESP Combo, 8 SCBR/WESP	2
MC/SCBR/WESP	2	<1
MC/WESP	7	1
Dry scrubbers and other controls:		
BH, CYC, or MC	19 BH, 12 CYC, 28 MC	9
Sand filter	2	<1
EFB	12	2
EFB + PM control	1 CYC/EFB, 5 MC/EFB, 3 MC/EFB/BH	1
RBP	1	<1
None	209	31
Total ^C	668	

^aProcess incineration is incineration via a process unit, normally a boiler or large combustion unit. Process incineration includes combustion units in which 75 percent or more of gases are combusted.

combusted.

bSemi-incineration includes units that are controlled by partial incineration in which less than 75 percent of gases are combusted (in either a process incinerator, RTO, RCO, TCO, or TO).

cThere are 16 additional dryers in the CBI survey responses. Two of these dryers are controlled by baghouses, two are controlled by WESP's, and 12 are uncontrolled.

Table 28a. Air pollution controls on wood products dryers segregated by product type.

	Hardboard dryers		Fiberboard d		Veneer dryers	
Control device	No.	%	No. %		No.	%
Incineration-based controls:						
RTO, RCO, TCO, or TO only	1 RCO, 4 RTO	7			6 RCO, 44 RTO, 3 TO	18
PINC only	1	1			5	2
SINC only			1	13		
PINC/[PM control]					5 [SCBR]	2
SINC/[PM control]			1 [SCBR]	13	1 [MC], 8 [SCBR]	3
WESP's and wet scrubbers:						
Wet scrubber only	19	27	1	13	47	16
WESP only					34	12
SCBR/WESP					4	1
Dry scrubbers and other controls:						
Baghouse, Cyclone, or Multiclone	3 BH, 4 CYC	10				
EFB					8	3
None	38	54	5	63	112	42
Total	70		8		277ª	

^aThere are six additional veneer dryers in the CBI survey responses. Two of these dryers are controlled by WESP's. The remaining four veneer dryers are uncontrolled.

Table 28b. Air pollution controls on wood products dryers segregated by product type.

MDF dryers		OSB dryers ^b	Particleboard dryers			
Control device	No.	%	No.	%	No.	%
Incineration-based controls:						
RTO, RCO, TCO, or TO only	8 RTO, 1 TO	23				
WESP/[RTO or RCO]			4 [RCO], 30 [RTO]	27	2 [RTO]	1
[PM control]/WESP/RTO	3 [BH]	8	12 [CYC], 9 [MC]	18	3 [MC]	2
[PM control]/RTO			14 [MC], 10 [RBP]	18	4 [MC]	3
SINC					1	1
PINC/[PM control]	2 [BH]	5	2 [BH], 3 [DESP], 6 [MC/DESP]	9		
SINC/[PM control]	1 [WESP]	3				
WESP's and wet scrubbers:						
Wet scrubbers only	2	5			20	14
WESP	3	8	19	15	15	11
SCBR/WESP					8	6
MC/SCBR/WESP			2	2		
MC/WESP			4	3	3	2
Dry scrubbers and other controls:						
BH, CYC, or MC	7 BH	18	1 CYC, 4 MC	4	9 BH, 7 CYC, 24 MC	28
Sand filter					2	1
EFB					4	3
EFB + PM control			5 MC/EFB	4	1 CYC/EFB, 3 MC/EFB/BH	3
RBP	1	3				
None	10	26			35	25
Total	38ª		125		141°	

^aThere are seven additional MDF dryers in the CBI survey responses. Two of these dryers have baghouses and five are uncontrolled.

^bFour of the OSB dryers are conveyor dryers. Three of the conveyor dryers have PINC/DESP control and one is controlled by a cyclone.

[&]quot;The total includes one uncontrolled agricultural fiber dryer, two molded particleboard dryers (one uncontrolled and one with SINC), four tube dryers (three with baghouses and one uncontrolled), and two "other" uncontrolled particleboard dryers. There are three additional uncontrolled particleboard dryers in the CBI survey responses.

Table 29. Air pollution controls on wood products dryers segregated by dryer type.

	Rotary dryers		Tube dryers	Tube dryers		Other dryers ^a	
Control device	No.	%	No.	%	No.	%	
Incineration-based controls:							
RTO, RCO, TCO, or TO only			8 RTO, 1 TO	12	1 RCO, 4 RTO ^d	11	
WESP/[RTO or RCO]	4 [RCO], 32 [RTO]	14					
[PM control]/WESP/RTO	12 [CYC], 12 [MC]	9	3 [BH]	4			
[PM control]/RTO	18 [MC], 10 [RBP]	11					
PINC					1	2	
SINC	1	1			1	2	
PINC/[PM control]	2 [BH], 6 [MC/DESP]	3	2[BH]	3	3 [DESP]	7	
SINC/[PM control]			1 [WESP]	1	1 [SCBR]	2	
WESP's and wet scrubbers:							
Wet scrubber only	20	8	18	23	4	9	
WESP only	35	13	2	3			
SCBR/WESP	8	3					
MC/SCBR/WESP	2	1					
MC/WESP	7	3					
Dry scrubbers and other controls:							
Baghouse, Cyclone, or Multiclone	6 BH, 7 CYC, 28 MC	16	13 BH, 4 CYC	22	1 CYC	2	
Sand filter	2	1					
EFB	4	2					
EFB + PM control	1 CYC/EFB, 5 MC/EFB, 3 MC/EFB/BH	3					
RBP			1	1			
None	35	13	24	31	29	64	
Total	260 ^b		77°		45		

^aIncludes OSB conveyor dryers, hardboard dryers, fiberboard dryers, and unconventional particleboard dryers.

^bThere are three additional uncontrolled rotary dryers in the CBI survey responses.

^cThere are seven additional tube dryers in the CBI survey responses. Two have baghouse control and the remainder are uncontrolled.

^dThese are all hardboard dryers.

Table 30a. Air pollution controls on wood products presses.

	All presses	MDF pres	sses	OSB presses		
Control device	No.	%	No.	%	No.	%
Incineration-based controls:						
RTO, RCO, TCO, or TO	1 RCO, 23 RTO, 1 TCO	6	5 RTO	24	1 RCO, 14 RTO, 1 TCO	41
WESP/RTO	1	<1			1	3
Semi-incineration (SINC) ^a	2	1	1	5	1	3
PINC/baghouse	1	<1	1	5		
SINC/scrubber	2	1				
WESP's and wet scrubbers:						
Wet scrubbers	9	2				
WESP	1	<1				
SCBR/BH/WESP/RTO	1	<1	1	5		
Dry scrubbers and other controls:						
BH, CYC, or MC	4 BH, 1 CYC, 1 MC	2	2 BH	10		
Biofilter	5	1			2	5
None	345	87	11	52	19	49
Total	398 ^b		21 ^c		39	

^aSemi-incineration includes units that are controlled by partial incineration in which less than 75 percent of gases are combusted (in either a process incinerator, RTO, RCO, TCO, or TO).

^bThere are 33 additional presses in the CBI survey responses. One of these presses is controlled by process incineration and 32 are uncontrolled.

^cThere are seven additional MDF presses in the CBI survey responses. One of these presses is controlled by process incineration and six are uncontrolled.

Table 30b. Air pollution controls on wood products presses.

	Hardboard presses		Particleboard pre	sses	Plywood presses	
Control device	No.	%	No.	%	No.	%
Incineration-based controls:						
RTO, RCO, TCO, or TO	1 RTO	2	3 RTO	4		
SINC/Scrubber			2	3		
WESP's and wet scrubbers:						
Wet scrubbers	8	20	1	1		
WESP			1	1		
Dry scrubbers and other controls:						
ВН, СҮС, МС	1 CYC, 1 MC	5	2 BH	3		
Biofilter	2	5	1	1		
None	28	68	70	88	216	100
Total	41		80 ^a		216 ^b	

^aThere are 18 additional uncontrolled particleboard presses in the CBI survey responses. bThere are eight additional uncontrolled plywood presses in the CBI survey responses.

Description of Control Device Codes

Description of control device	Code			
Air filter	FILTER			
Baghouse	ВН			
Biofilter	BIO			
Cyclone	CYC			
Dry electrostatic precipitator	DESP			
Electrified filter bed	EFB			
Multiclone	MC			
Process incineration (recirculation of 75 percent or more of process exhaust through a combustion unit)	PINC			
Regenerative thermal oxidizer	RTO			
Regenerative catalytic oxidizer	RCO			
Rotary bed protector	RBP			
Sand filter	SF			
Semi-incineration (recirculation of less than 75 percent of process exhaust through a combustion unit)	SINC			
Thermal oxidizer	TO			
Thermal catalytic oxidizer	TCO			
Uncontrolled	NONE			
Wet electrostatic precipitator	WESP			
Wet scrubber	SCBR			